

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IL2004/000507

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 C12N5/06 A61K35/12 A61K38/17 A61K35/30		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	ZHANG PEILIN ET AL: "Enhancement of oligodendrocyte differentiation from murine embryonic stem cells by an activator of gp130 signaling." STEM CELLS (DAYTON, OHIO) 2004, vol. 22, no. 3, 2004, pages 344-354, XP009035185 ISSN: 1066-5099 the whole document	1-53
P,X	WO 03/059376 A (YEDA RESARCH AND DEV CO LTD ; LEVY ALON (IL); CHEBATH JUDITH (IL); HAG) 24 July 2003 (2003-07-24) the whole document	1-53
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search  <div style="text-align: center; font-size: 1.2em;">29 September 2004</div>		Date of mailing of the international search report  <div style="text-align: center; font-size: 1.2em;">15. 10. 04</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-size: 1.2em;">Mossier, B</div>

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VALERIO A ET AL: "A SOLUBLE INTERLEUKIN-6 (IL-6) RECEPTOR/IL-6 FUSION PROTEIN ENHANCES THE IN VITRO DIFFERENTIATION OF RAT OLIGODENDROCYTES." ABSTRACTS OF THE SOCIETY FOR NEUROSCIENCE, SOCIETY FOR NEUROSCIENCE, WASHINGTON, DC, US, vol. 27, no. 2, 2001, page 2381, XP001146998 ISSN: 0190-5295	10
Y	the whole document	1-9, 11-53
Y	BRÜSTLE O ET AL: "Embryonic stem cell-derived glial precursors: a source of myelinating transplants." SCIENCE. 30 JUL 1999, vol. 285, no. 5428, 30 July 1999 (1999-07-30), pages 754-756, XP002292501 ISSN: 0036-8075 cited in the application the whole document	1-53
Y	GAGE F H: "Mammalian neural stem cells." SCIENCE. 25 FEB 2000, vol. 287, no. 5457, 25 February 2000 (2000-02-25), pages 1433-1438, XP002292502 ISSN: 0036-8075 abstract; figure 1	1-53
X	BILLON NATHALIE ET AL: "Normal timing of oligodendrocyte development from genetically engineered, lineage-selectable mouse ES cells." JOURNAL OF CELL SCIENCE. 15 SEP 2002, vol. 115, no. Pt 18, 15 September 2002 (2002-09-15), pages 3657-3665, XP002292503 ISSN: 0021-9533	10
A	the whole document	1-9, 11-53
A	WO 00/78331 A (BOSCHERT URSULA ; CHEBATH JUDITH (IL); REVEL MICHEL (IL); YEDA RES & D) 28 December 2000 (2000-12-28) cited in the application page 4, line 30 - page 7, line 12 page 7, line 29 - page 9, line 3; claims 1-10; examples 1,3,5	1-53
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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>STANKOFF BRUNO ET AL: "Ciliary neurotrophic factor (CNTF) enhances myelin formation: a novel role for CNTF and CNTF-related molecules." THE JOURNAL OF NEUROSCIENCE : THE OFFICIAL JOURNAL OF THE SOCIETY FOR NEUROSCIENCE. 1 NOV 2002, vol. 22, no. 21, 1 November 2002 (2002-11-01), pages 9221-9227, XP002292518 ISSN: 1529-2401 abstract</p>	1-53
A	<p>NICHOLS J ET AL: "Derivation of germline competent embryonic stem cells with a combination of interleukin-6 and soluble interleukin-6 receptor." EXPERIMENTAL CELL RESEARCH. NOV 1994, vol. 215, no. 1, November 1994 (1994-11), pages 237-239, XP002292519 ISSN: 0014-4827 abstract</p>	1-53

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 37 - 53 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03059376	A	24-07-2003	EP 1461066 A1	29-09-2004
			WO 03059376 A1	24-07-2003
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WO 0078331	A	28-12-2000	AU 5423100 A	09-01-2001
			BR 0011363 A	26-02-2002
			CA 2374997 A1	28-12-2000
			CN 1364088 T	14-08-2002
			EA 4626 B1	24-06-2004
			EE 200100689 A	17-02-2003
			EP 1185293 A2	13-03-2002
			WO 0078331 A2	28-12-2000
			JP 2003502382 T	21-01-2003
			NO 20015673 A	17-12-2001
			ZA 200109488 A	18-11-2002
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